AMENDED CLAIMS

[received by the International Bureau on 20 December 2004 (20.12.04), original claims 1 to 21 replaced by new claims 1 to 19 (3 pages)]

- A process for the preparation of Moxifloxacin hydrochloride monohydrate comprising steps
 - Treating (4aS-Cis)-1-cyclopropyl-7-(2,8-diazabicyclo[4.3.0] non-8-yl)-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid (-0³,0⁴)bis(acyloxy-0) borate with hydrochloric acid in a solvent
 - Isolating and drying the Moxifloxacin hydrochloride
 - Treating the Moxifloxacin hydrochloride with hydrochloric acid in ethanol to get Moxifloxacin hydrochloride monohydrate
- 2. A process as claimed in claim-1, wherein hydrochloric acid is gaseous or aqueous or dissolved in a solvent
- 3. A process as claimed in claim-1, wherein the solvent used is a short chain alkanol
- 4. A process as claimed in claim-3, wherein the short chain alkanol is preferably methanol, ethanol and isopropanol
- 5 Moxifloxacin hydrochloride which is characterized by an infrared absorption comprising bands at 3669, 3357, 2950, 2894, 2548, 1730, 1708, 1623, 1515, 1456, 1373, 1354, 1326, 1183, 1046, 1028, 938, 875, 835, 804 and 722 cm⁻¹
 - 6.Moxifloxacin hydrochloride which is characterized by a powder X-ray diffraction pattern comprising peaks at about 5.8,7.2,8.6,10.4,12.4,13.3,14.6,14.9,15.2, 16.7,17.3,17.9,18.7,19.8,21.7,22.4,24.7,25.2,25.8,26.6,27.0,27.4, 27.9,28.4,29.0,30.0,31.6,32.3,35.0,37.6,39.1,41.3,41.9 and 43.9 ± 0.2 degrees two-theta.
- 7. Crystalline (4aS-Cis)-1-cyclopropyl-7-(2,8-diazabicyclo[4.3.0]non-8-yl)-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-0³,0⁴)bis (acyloxy-0)borate

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- 8. As claimed in claim-8 the novel intermediate which is characterized by an infrared absorption comprising bands at 3415, 3332, 2936, 1718, 1630, 1573, 1526, 1445, 1273, 1042, 935, 860, 798, 682 cm⁻¹
- 9.A process for the preparation of a novel intermediate (4aS-Cis)-1-Cyclopropyl-7-(2,8-diazabicyclo[4.3.0]non-8-yl)-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-0³,0⁴)bis (acyloxy-0)borate comprising:
 - Reacting ethyl 1-cyclopropyl-6,7-difluoro-8-methoxy-4-oxo-1,4-dihydro- 3-quinoline carboxylate with a mixture of boric acid and acetic anhydride at temperature above 50°C without the use of catalyst
 - Precipitating (1-Cyclopropyl-6,7-difluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-0³,0⁴)bis (acyloxy-0)borate by cooling to low temperature followed by diluting with water
 - Isolating and drying the (1-cyclopropyl-6,7-difluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-03,04) bis (acyloxy-0)borate
 - Condensing (1-Cyclopropyl-6,7-difluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-03,04)bis (acyloxy-0)borate with (S,S)-2,8-Diazabicyclo[4.3.0]nonane in presence of base(s) in organic polar solvent(s)
 - Crystallizing (4aS-Cis)-1-cyclopropyl-7-(2,8-diazabicyclo [4.3.0]non-8-yl)-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-0³,0⁴)bis (acyloxy-0)borate
 - Isolating and drying of (4aS-Cis)-1-cyclopropyl-7-(2,8-diazabicyclo [4.3.0]non-8-yl)-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-03,04) bis (acyloxy-0)borate
- 10. The process as claimed in claim 9, wherein the temperature for the reaction of ethyl 1-cyclopropyl-6,7-difluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylate with the mixture of boric acid and acetic anhydride is in the range of 90°C to 120°C.

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- 11. The process as claimed in claim 9, wherein the organic polar solvents is selected from acetonitrile or DMSO or DMF.
- 12. The process as claimed in claims 9, wherein the base(s) used is organic or inorganic base
- 13. The process as claimed in claims 12, wherein the organic base is selected from triethylamine or disopropyl ethylamine or DBU
- 14. The process as claimed in claims 12, wherein the inorganic base is potassium carbonate
- 15. The process as claimed in claim 9, wherein the temperature for the condensation reaction is in the range of 30°C to 100°C , preferably from 60°C to 80°C
- 16. The process as claimed in claim 9, wherein the crystallization of (4aS-Cis)-1-Cyclopropyl-7-(2,8-diazabicyclo [4.3.0]non-8-yl)-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-3-quinoline carboxylic acid-0³,0⁴)bis (acyloxy-0)borate is carried out by removal of solvent and adding a second solvent
- 17. The process as claimed in claims 16, wherein the second solvent is selected from hydrocarbons of C-5 to C-7
- 18. The process as claimed in claims 17, wherein the hydrocarbon is alkanes, cycloalkanes or mixtures thereof
- 19. The process as claimed in claims 17, wherein the hydrocarbon is n-hexane, n-heptane, cyclohexane, methyl cyclohexane or mixtures thereof.